In the Claims

1. (Currently amended) A method comprising:

receiving a block of transform domain coefficients and corresponding error flags, wherein at least one coefficient is erroneous due to transmission of the coefficients;

estimating an initial value for each erroneous coefficient;

decoding ~~pixel values~~ the erroneous coefficients of the block into estimated pixel values using the initial values of the coefficients to create predicted decodings of the ~~pixel values~~ block where there are errors in the coefficients and decoding non-erroneous coefficients of the block into error-free pixel values using received values of the coefficients to create partial decodings of the ~~pixel values~~ block where there are no errors in the coefficients;

updating the value for each erroneous coefficient based on the partial and predicted decodings of the block; and

updating the estimated pixel values of the block using the updated values of the coefficients.

2. (Original) The method of claim 1, wherein estimating an initial value further comprises estimating the expected value of each erroneous coefficient.

3. (Currently amended) The method of claim 1, wherein decoding ~~pixel value~~erroneous and non-erroneous coefficients further comprises applying the transform domain coefficients to an inverse transform.

4. (Original) The method of claim 1, wherein updating the value for each erroneous coefficient further comprises minimizing a least squares equation.

5. (Currently amended) The method of claim 1 further comprising:

displaying the ~~updated~~ pixel values.

6. (Currently amended) An apparatus comprising:

means for receiving a block of transform domain coefficients and corresponding error flags, wherein at least one coefficient is erroneous due to transmission of the coefficients;

means for estimating an initial value for each erroneous coefficient;

means for decoding ~~pixel values~~ the erroneous coefficients ~~-~~of the block into estimated pixel values using the initial values of the coefficients to create predicted decodings of the ~~pixel values~~ block where there are errors in the coefficients and decoding non-erroneous coefficients of the block into error-free pixel values using received values of the coefficients to create partial decodings of the ~~pixel values~~block where there are no errors in the coefficients;

means for updating the value for each erroneous coefficient based on the partial and predicted decodings of the block; and

means for updating the estimated pixel values of the block using the updated values of the coefficients.

7. (Original) The apparatus of claim 6, wherein said means for estimating an initial value further comprises means for estimating the expected value of each erroneous coefficient.

8. (Currently amended) The apparatus of claim 6, wherein said means for decoding ~~pixel values~~the erroneous coefficients and the non-erroneous coefficients further comprises means for applying the transform domain coefficients to an inverse transform.

9. (Previously presented) The apparatus of claim 6, wherein said means for updating the value of each erroneous coefficient further comprises means for minimizing a least squares equation.

10. (Currently amended) The apparatus of claim 6 further comprising:

means for displaying the ~~updated~~ pixel values.

11. (Currently amended) A computer readable medium having instructions which, when executed by a processing system, cause the system to:

receive a block of transform domain coefficients and corresponding error flags, wherein at least one coefficient is erroneous due to transmission of the coefficients;

estimate an initial value for each erroneous coefficient;

decode ~~pixel values~~ the erroneous coefficients of the block using the initial values of the coefficients to create predicted decodings of the ~~pixel values~~block where there are errors in the coefficients and decoding non-erroneous coefficients of the block into error-free pixel values using received values of the coefficients to create partial decodings of the ~~pixel values~~ block where there are no errors in the coefficients;

update the value for each erroneous coefficient based on the partial and predicted decodings of the block; and

update the estimated pixel values of the block using the updated values of the coefficients.

12. (Original) The medium of claim 11, wherein the executed instructions further cause the system to:

estimate the initial value by estimating the expected value of each erroneous coefficient.

13. (Currently amended) The medium of claim 11, wherein the executed instructions further cause the system to:

decode ~~pixel values~~ the erroneous and non-erroneous coefficients by applying the transform domain coefficients to an inverse transform.

14. (Currently amended) The medium of claim 11, wherein the executed instructions further cause the system to:

update the estimated value for each erroneous coefficient by minimizing a least squares equation.

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15. (Currently amended) The medium of claim 11 wherein the executed instructions further cause the system to:

display the ~~updated~~ pixel values.